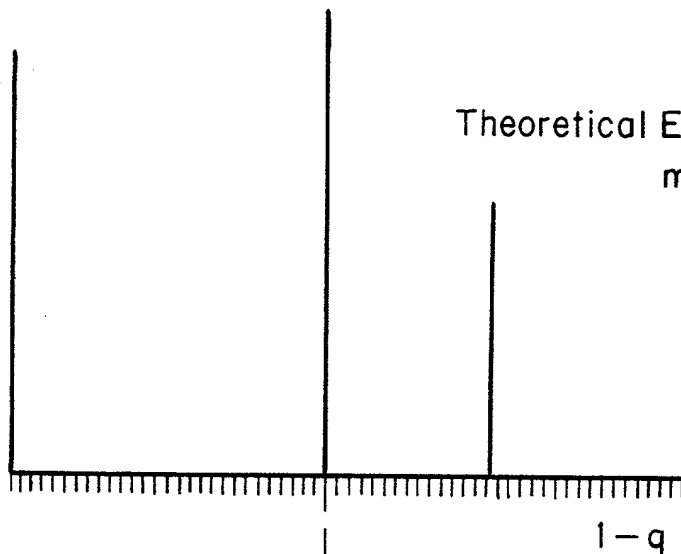


# FIG. 1

Actual Error Rate of a Natural  
Replication System:  $m < \ln s(1-q)^{-1}$



Increase of Incorporation Error  
Rate (Decrease of  $q$ ) Result in  
Replication Beyond Error Threshold

Extension of The Genome ( $m$ )  
Results in Shift of Theoretical  
Error Threshold (Possibly to  
Beneath The Actual Error  
Threshold )

Decrease of Superiority Factor ( $s$ )  
of The Optimum Sequence  
(Ribozyme, Nuclease ) Results in  
Shift of Theoretical Error Threshold  
( Possibly to Beneath The Actual  
Error Threshold )

FIG. 2

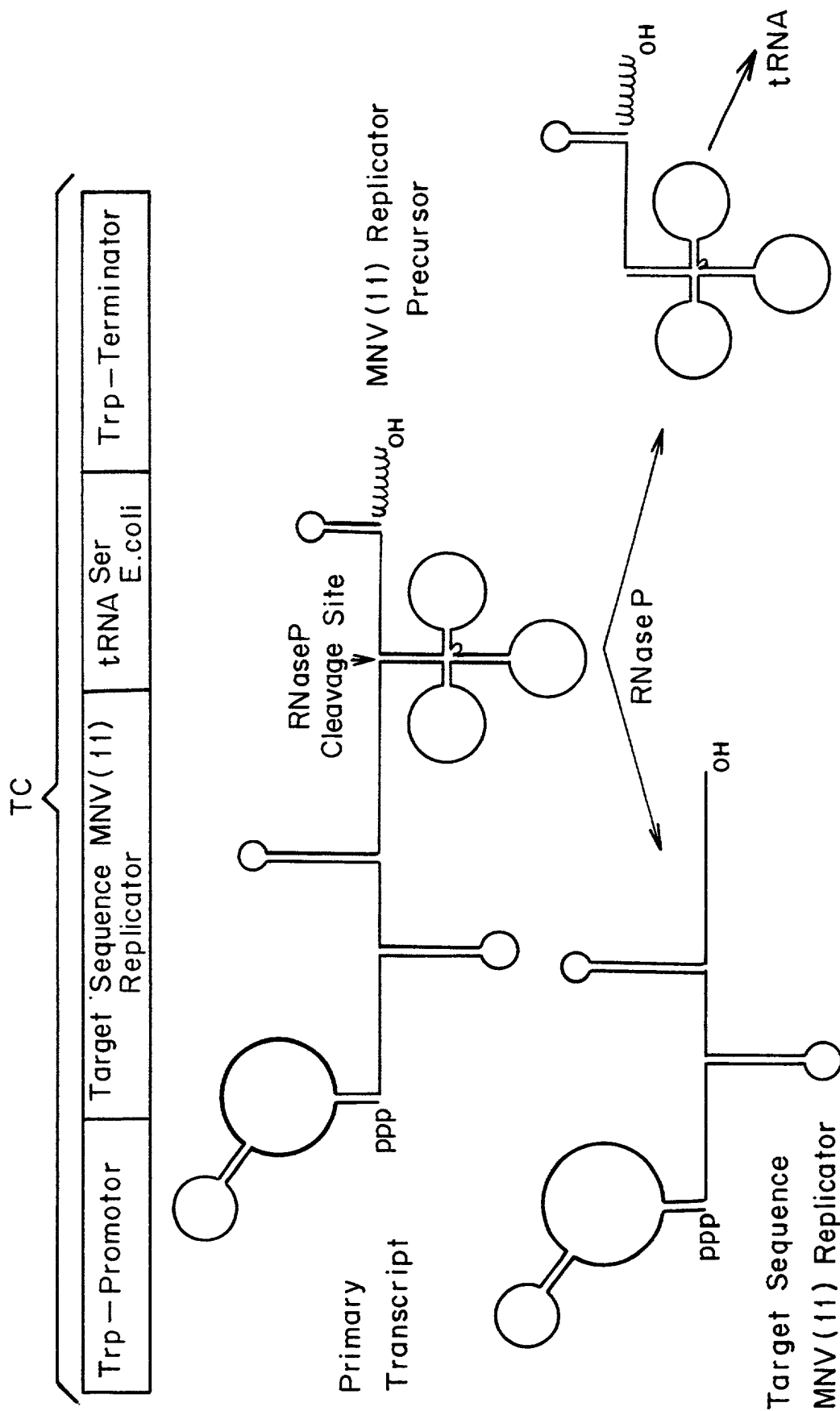
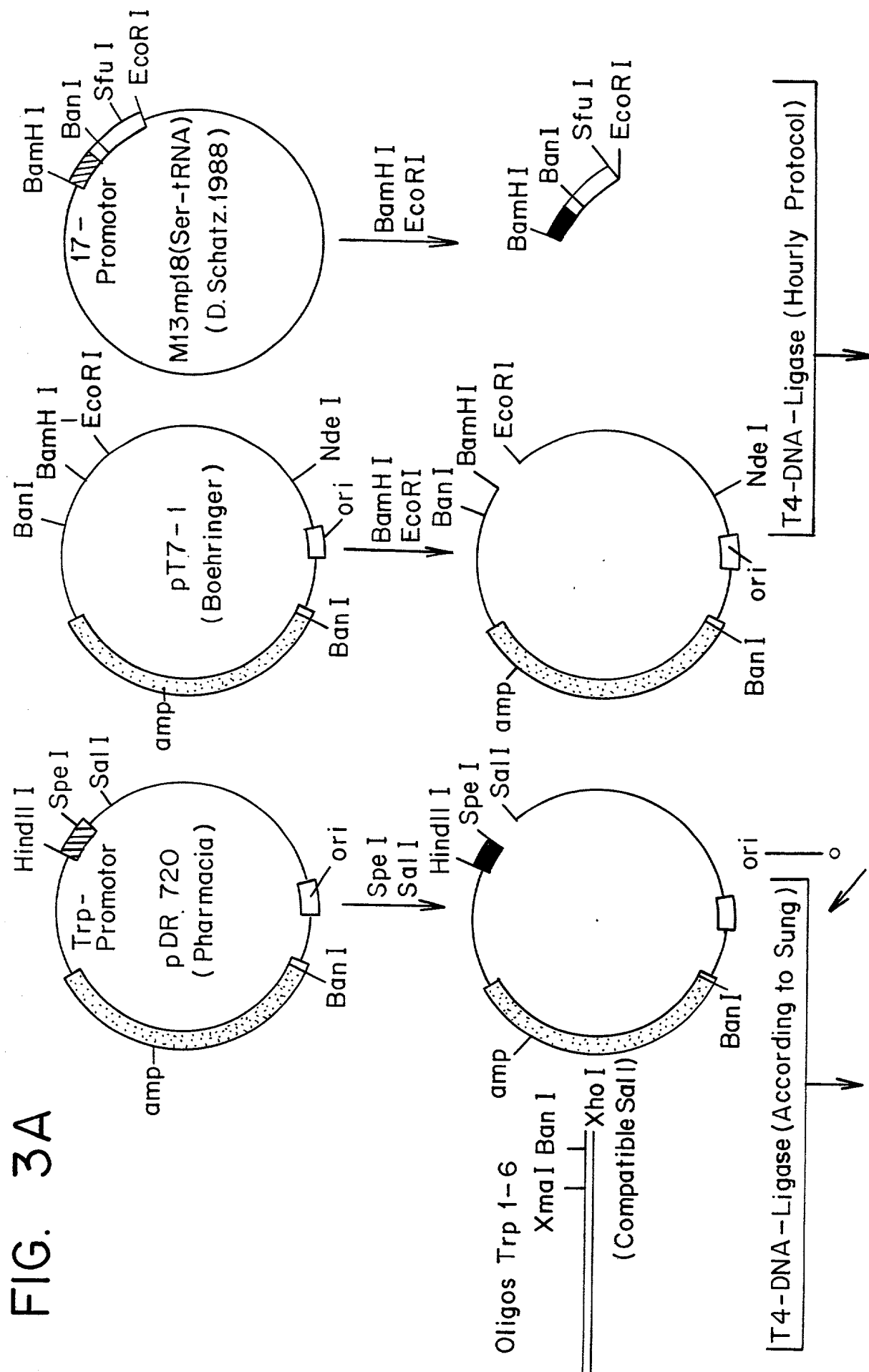


FIG. 3A



# FIG. 3B

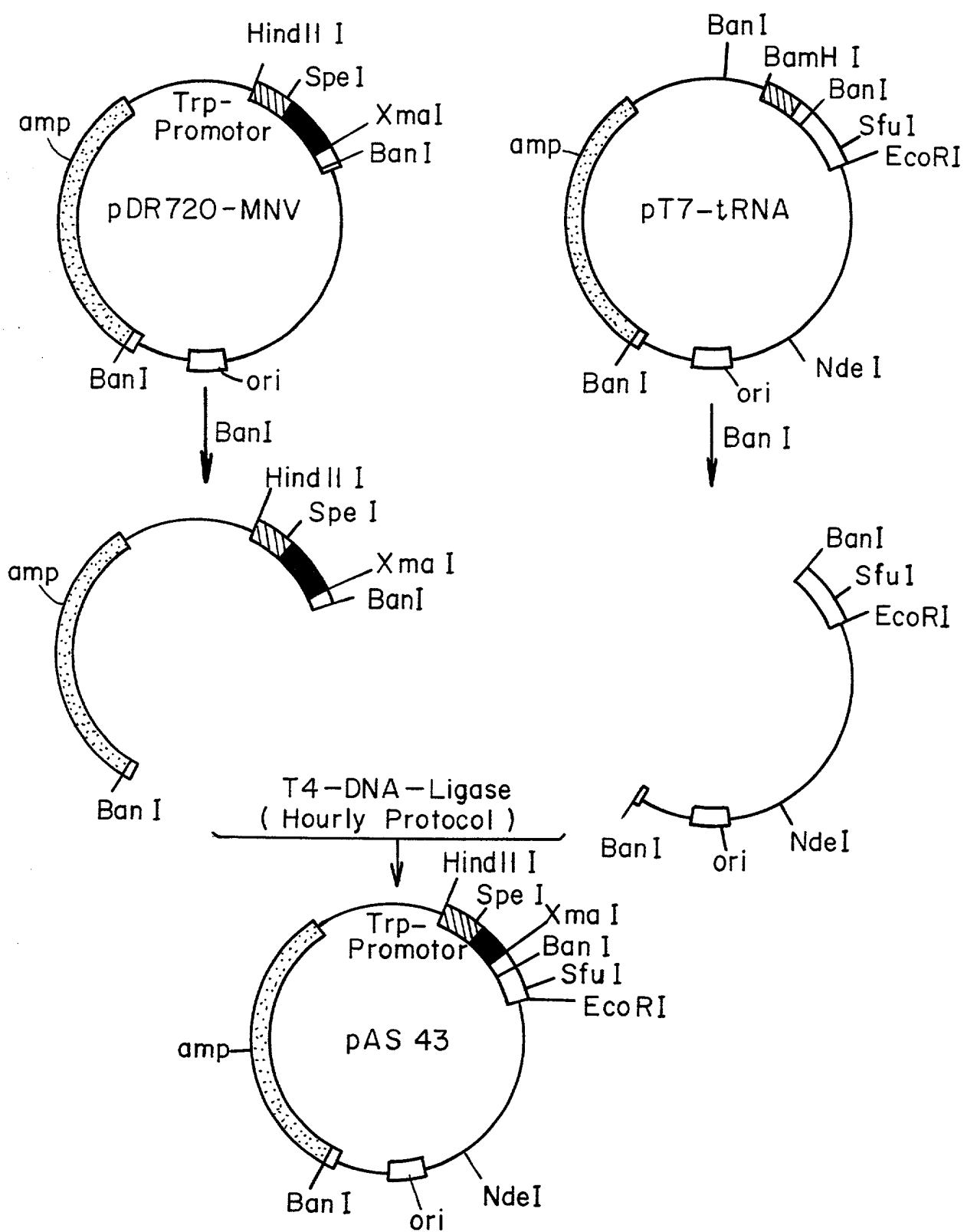


FIG. 3C

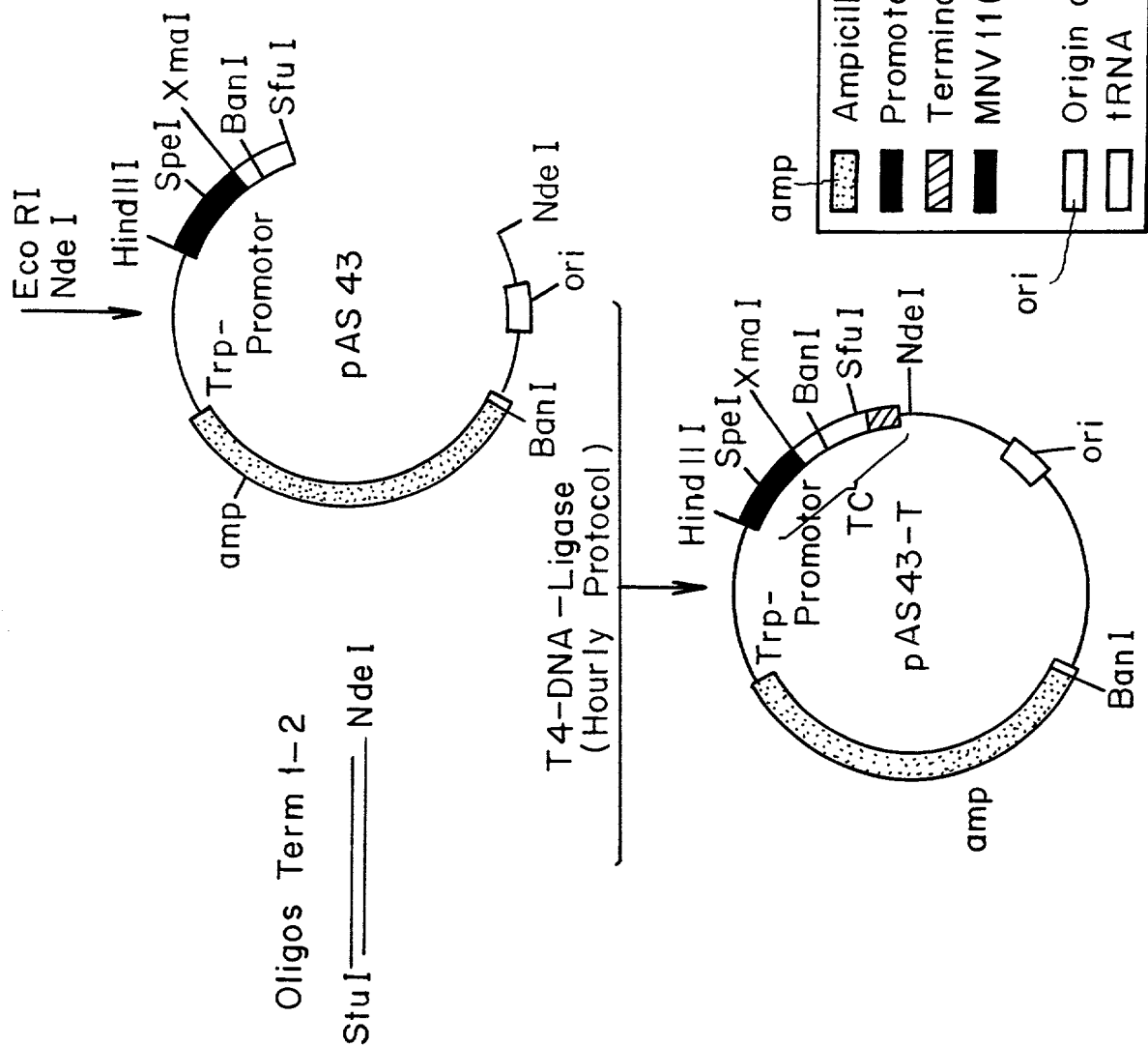
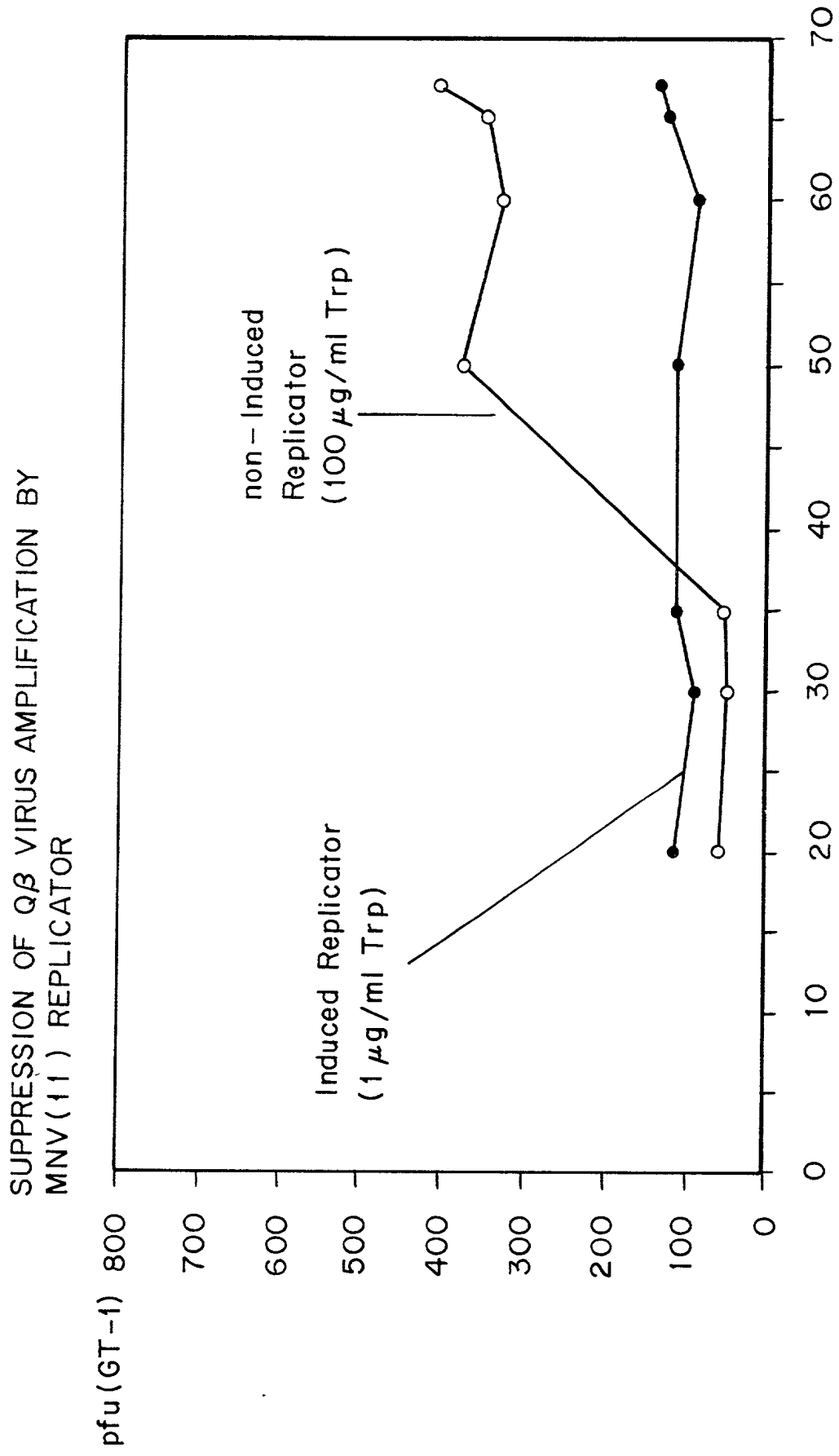
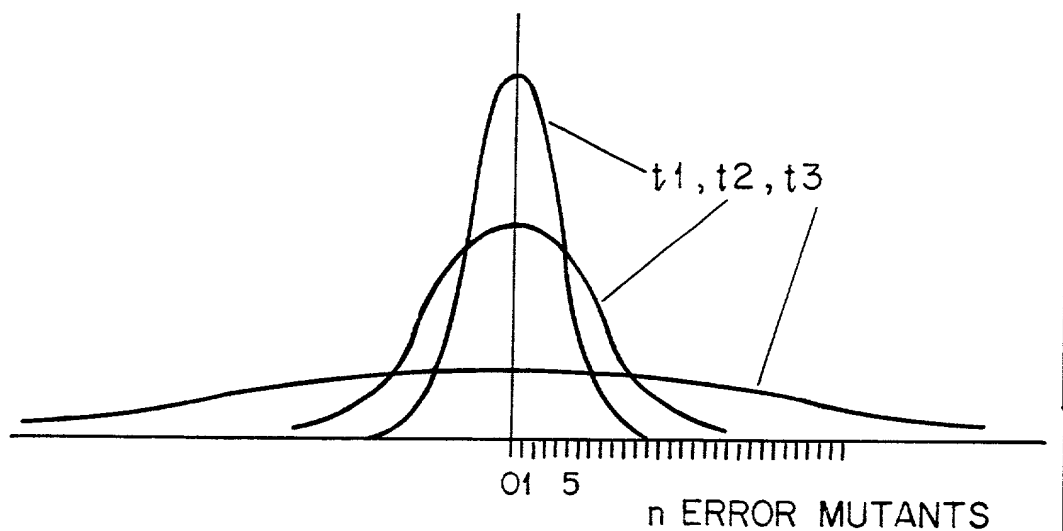


FIG. 4

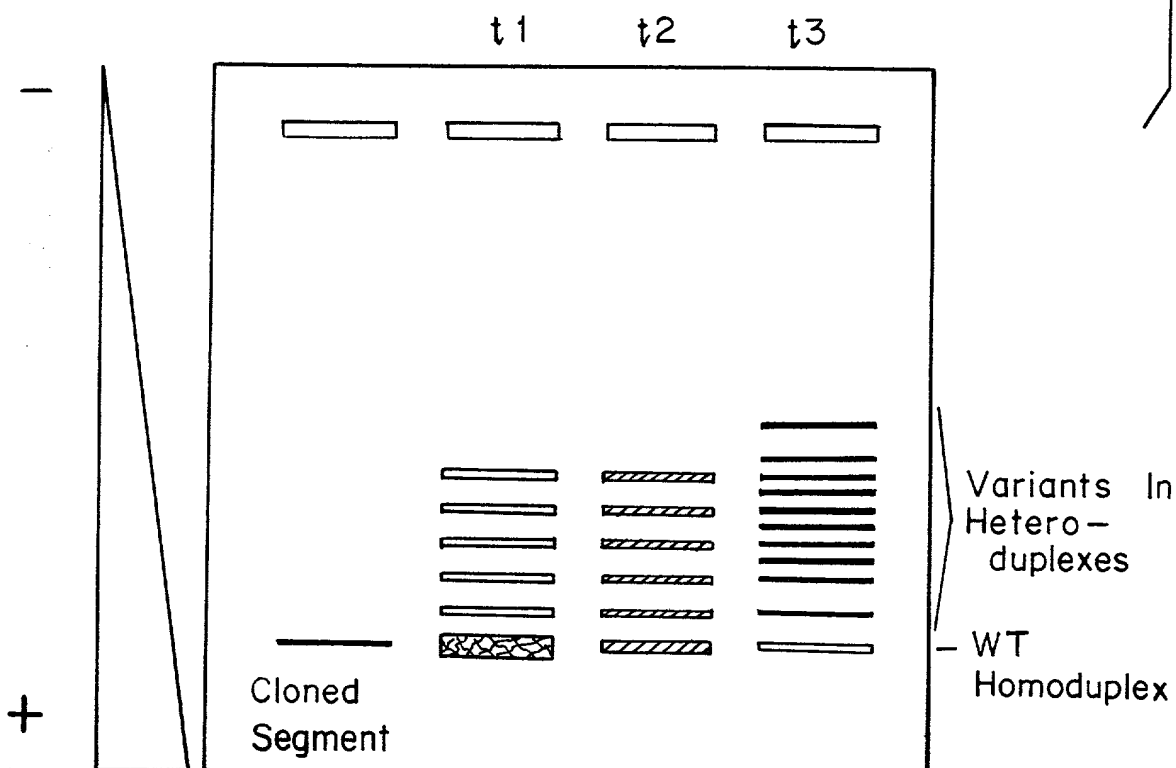


# FIG. 5

QUASI SEPCIES DISTRIBUTION WITH PROCEEDING  
REPLICATION TIME  $t_1, t_2, t_3,$



ANALYSIS OF QUASI SPECIES DISTRIBUTION



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# ANALYSIS OF CLONED POLYMERASE GENES BY QUANTITATIVE DETERMINATION OF THE MUTATED SYNTHESIS PRODUCTS

